

# Receiving Report

Date: 12/7/26

Batch No: M12251

Supplier: FHY 55784

Dart P/O: 17463

Packing Slip: Yes  No   
 Invoice: Yes  No   
 Receipt: Cash  Cr

Release Note Attached: Yes  No  N/A   
 Waybill Attached: Yes  No  N/A   
 Shipment Complete: DAS Yes  No  N/A   
 QC6 Inspection 14 Yes  No  N/A   
 Work Order 0-55 12/10/27 Yes  No  N/A

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments
<u>M304B0-5W X 00005</u>		<u>24</u>	<u>0</u>	<u>0</u>	<u>24</u>	
<u>M304B0-0620X300</u>		<u>13</u>	<u>0</u>	<u>0</u>	<u>13</u>	
<u>M6061T65032</u>		<u>96</u>	<u>0</u>	<u>0</u>	<u>96</u>	
<u>M7070T3320006</u>		<u>325</u>	<u>6</u>	<u>0</u>	<u>6</u>	

Initials of receiver (if shipment OK) Level 12 le

Production/Admin: 12/10/26  
 Date  
 Received/Costing  
 Initial le

Location \_\_\_\_\_

## Purchaser's Order Receipt Listing

*Thursday, July 26, 2012 8:56:04 AM*

All amounts are calculated in domestic currency.

All Vendors PO ID PO17463 Receipt Dates from 7/26/2012 to 7/26/2012  
All Item ID/GL/WOs All Rec. Employees All Currencies

Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line No./ Insr Req	Project ID	Description/ Item Sld	PO U/M / Stock U/M	Required Date/ Required Qty	Recv Date/ Recv Imp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Book Amt	
PO17463	12		Thyssenkrupp Materials CA Ltd		7/23/2012	7/26/2012	12.0000	\$6.87	0.0000	\$82.43
CAD	No		M6061T6B1.500X02. f 000				12.0000	DESJ02		
			6061-T6 Bar 1.50 x f 2.00							
			122521							
	13		M6061T6B2.000X02. f 250		7/23/2012	7/26/2012	12.0000	\$11.61	0.0000	\$139.34
	No		6061-T6 Bar 2.00 x f 2.25				12.0000	DESJ02		
			122521							
	14		M6061T6R1.000 f No.		7/23/2012	7/26/2012	24.0000	\$1.80	0.0000	0
			ROUND BAR 1.00" f 122521				24.0000	DESJ02		
	15		M6061T6R3.500 f No.		7/23/2012	7/26/2012	12.0000	\$23.06	0.0000	0
			6061 RD bar 3.50 f 122521				12.0000	DESJ02		
	17		M6061T6S.080 sf No.		7/23/2012	7/26/2012	96.0000	\$3.05	0.0000	0
			6061-T6 .080 Sheet sf 122521				96.0000	DESJ02		
	18		M6061T6S.125 sf No.		7/23/2012	7/26/2012	64.0000	\$4.75	0.0000	0
			6061-T6 .125 Sheet sf 122521				64.0000	DESJ02		

Purchase Order ID/ Curr Type	Line No./ Insr Req	Project ID	Description/ Item Sld	PO U/M / Stock U/M	Required Date/ Required Qty	Recv Date/ Recv Imp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Book Amt	
PO17463	12		Thyssenkrupp Materials CA Ltd		7/23/2012	7/26/2012	12.0000	\$6.87	0.0000	\$82.43
CAD	No		M6061T6B1.500X02. f 000				12.0000	DESJ02		
			6061-T6 Bar 1.50 x f 2.00							
			122521							
	13		M6061T6B2.000X02. f 250		7/23/2012	7/26/2012	12.0000	\$11.61	0.0000	\$139.34
	No		6061-T6 Bar 2.00 x f 2.25				12.0000	DESJ02		
			122521							
	14		M6061T6R1.000 f No.		7/23/2012	7/26/2012	24.0000	\$1.80	0.0000	0
			ROUND BAR 1.00" f 122521				24.0000	DESJ02		
	15		M6061T6R3.500 f No.		7/23/2012	7/26/2012	12.0000	\$23.06	0.0000	0
			6061 RD bar 3.50 f 122521				12.0000	DESJ02		
	17		M6061T6S.080 sf No.		7/23/2012	7/26/2012	96.0000	\$3.05	0.0000	0
			6061-T6 .080 Sheet sf 122521				96.0000	DESJ02		
	18		M6061T6S.125 sf No.		7/23/2012	7/26/2012	64.0000	\$4.75	0.0000	0
			6061-T6 .125 Sheet sf 122521				64.0000	DESJ02		

Total Received Quantity: 620.7000  
 Total Qty to Inspect (PO U/M): 0.0000  
 Total Reject Quantity: 0.0000  
 Total Receipt Value: \$4,321.47  
 Total Balance Due Quantity: 0.0000

## B I L L O F L A D I N G

No: PEC 777693

Ship From:  
**THYSSENKRUPP MATERIALS NA**  
 2821 LANGSTAFF ROAD  
 CONCORD, ONTARIO L4K 5C6  
 Tel: 905 669 9444 Fax: 9057389033

Ship Date 23Jul12 at 10:57 From PFW  
 Probill  
 Via VIM TRANSFER  
 FOB CONCORD  
 Frt PREPAID  
 Route 0-0 Manifest  
 Vhcle Trailer  
 Slp STAN IVERS (905-532-1350)  
 Sold To: (20115)  
**DART AEROSPACE**  
 1270 ABERDEEN ST  
 HAWKESBURY, ON K6A 1K7

Ship To: (1)  
**DART AEROSPACE**  
 1270 ABERDEEN ST  
 HAWKESBURY, ON K6A 1K7  
 Tel: 613-632-9577 Fax: 613-632-1053

## B I L L O F L A D I N G

1) Our Order PEC-472083- 1 Your PO # 17463  
**STAINLESS STEEL SQ BAR 303 STAINLESS**

1.00" X 151.0000"

Heat Number	Tag No	Quantity	PCS	MTR	Wt LBS
245298	88401	12 ' 7.0000 "	1		43

2) Our Order PEC-472083- 2 Your PO # 17463  
**STAINLESS STEEL SHEET 304-2B**

.1200 Nom X 48.0000" X 120.0000"

Heat Number	Tag No	Quantity	PCS	MTR	Wt LBS
SF29688	88728	280.00 SFT	7		1347

3) Our Order PEC-472083- 3 Your PO # 17463  
**ALUMINUM FLAT BAR 6061-T6511**

.50" x 1.250" X 144.0000"

Heat Number	Tag No	Quantity	PCS	MTR	Wt LBS
Z00248009	88402	24 FT	2		17

4) Our Order PEC-472083- 4 Your PO # 17463  
**ALUMINUM FLAT BAR 6061-T6511**

.50" X 6.00" X 144.0000"

Heat Number	Tag No	Quantity	PCS	MTR	Wt LBS
201210006	88403	24 FT	2		84

5) Our Order PEC-472083- 5 Your PO # 17463  
**ALUMINUM FLAT BAR 6061-T6511**

.750" X 1.50" X 144.0000"

Heat Number	Tag No	Quantity	PCS	MTR	Wt LBS
HK079 712	88404	24 FT	2		32

Page: 1 ....Continued

2 10/12/12

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
 RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.  
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

25 JUL. 2012

DATE

## B I L L O F L A D I N G

No: PEC 777693

Ship From:  
**THYSSENKRUPP MATERIALS NA**  
 2821 LANGSTAFF ROAD  
 CONCORD, ONTARIO L4K 5C6  
 Tel: 905 669 9444 Fax: 9057389033

Ship Date 23Jul12 at 10:57 From PFW  
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 Vhcle Trailer  
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 Sold To: (20115)  
 DART AEROSPACE

Ship To: (1)  
 DART AEROSPACE

## B I L L O F L A D I N G

6) Our Order PEC-472083- 6 Your PO # 17463  
 ALUMINUM FLAT BAR 6061-T6511

1.00" x 4.00" X 144.0000"

Heat Number	Tag No	Quantity	PCS	Wt LBS
201210303	88405	24 FT	2	MTR 114

7) Our Order PEC-472083- 7 Your PO # 17463  
 ALUMINUM SQUARE BAR 6061-T6511

1.250" X 144.0000"

Heat Number	Tag No	Quantity	PCS	Wt LBS
Z00240017	88406	12 FT	1	MTR 23

8) Our Order PEC-472083- 8 Your PO # 17463  
 ALUMINUM FLAT BAR 6061-T6511

1.50" x 2.00" X 144.0000"

Heat Number	Tag No	Quantity	PCS	Wt LBS
201209117	88407	12 FT	1	MTR 43

9) Our Order PEC-472083- 9 Your PO # 17463  
 Part # OFFERING\*\*\*\*\*  
 ALUMINUM FLAT BAR 6061-T6511

2.00" x 2.50" X 144.0000"

Heat Number	Tag No	Quantity	PCS	Wt LBS
C7331164	88408	12 FT	1	71

10) Our Order PEC-472083- 10 Your PO # 17463  
 ALUMINUM ROUND BAR 6061-T6511

1.00" DIA X 144.0000"

Heat Number	Tag No	Quantity	PCS	Wt LBS
Z00216020	88409	24 FT	2	23

11) Our Order PEC-472083- 11 Your PO # 17463  
 ALUMINUM ROUND BAR 6061-T6511

3.50" DIA X 144.0000"

12/12/2012 MTR

Page: 2 ....Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
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**DART AEROSPACE**

Ship To: (1)  
**DART AEROSPACE**

## B I L L O F L A D I N G

Heat Number	Tag No	Quantity	PCS	Wt LBS
21112151	88410	12 FT	1	140

12) Our Order PEC-472083-12 Your PO # 17463  
 ALUMINUM SHEET 6061 T6  
 .0810 Nom X 48.0000" X 144.0000"

Heat Number	Tag No	Quantity	PCS	Wt LBS
25872/01/00	88035	96.00 SFT	2	105

13) Our Order PEC-472083-13 Your PO # 17463  
 ALUMINUM SHEET 6061 T6  
 .1250 Nom X 48.0000" X 96.0000"

Heat Number	Tag No	Quantity	PCS	Wt LBS
30286/01/00	88036	64.00 SFT	2	109

14) Our Order PEC-472083-14 Your PO # 17463  
 Part # PLATE ASTM B 209 QQ-A-250/12 Rel #  
 ALUMINUM PLATE 7075T7351  
 2.50" THICK X 3.2500" X 72.0000"  
 \*\*\* BACK ORDER \*\*\*

TOTAL:	Tags	PCS	LBS
	13	26	2151

Heat Number                    \*\*\* Chemical Analysis \*\*\*  
 201209117  
 201210006  
 201210303  
 21112151  
 245298  
 25872/01/00  
 30286/01/00  
 HK079 712  
 SF29688  
 Z00216020

Page: 3 ....Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
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 Sold To: ( 20115 )  
**DART AEROSPACE**

## B I L L O F L A D I N G

Z00240017  
 Z00248009

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT  
 WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR  
 TO SHIPPING.

ATTN: CHANTAL/LINDA

\*\* ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER \*\*

\*\* REFERENCED ON IT \*\*

TOTAL 1 BDL, 2 SKIDS GW. 2477 LBS

\*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA  
 CONCORD, ONT.\* \*\*\* 9:00 AM TO 4:00 PM \*\*\*

\*\*\*\* TEL. 800-926-2600 \*\*\*\*

\*\*\*\*\*

\* WE STOCK STAINLESS STEEL \*

\* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT \*

\*\*\*\*\*

\*\*\*PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE  
 ADDED TO EVERY ORDER.\*\*\*

Page: 4 .... Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
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25 JUIL. 2012

DATE

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

STAINLESS STEEL SQ BAR 303 STAINLESS  
1.00" X 151.0000"  
PART NO.

PO/Ref 17463

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

## Certificate of Mill Test Results

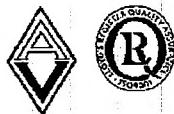
BL PEC-777693-001

23Jul12

Pg 1/1

Signed by: \_\_\_\_\_

## Acciaierie Valbruna s.p.a.



36100 VICENZA (Italia) - Viale della scienza, 25 z.i.  
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Client / Bestellnr/Purchaser/Client  
VALBRUNA CANADA LTD  
8724 HOLGATE CRESCENT  
COND-MILTON, ONT L5T 5Z1-CAN

Produttore: ACCIAIERIE VALBRUNA S.P.A.  
Manufacturer/Usine productrice

Oggetto Prove: - Annealed Cold Drawn  
Prüfgegenstand/Item Inspected/Préciségo

Specifiche:  
Anforderungen / Requirements / Exigences

VSI 0 303 A,CF  
ASME SA320 2004 B8F o  
ASTM A370 2007A  
QQ-S-764 B/2 303 A  
(0) SEC.II PT.A 2004 EDITION ADD.2006  
(1) Chemical analysis only.

Qualità: T-303  
Werkstoff/Grade/Nuance

Marcia: VPAU188Z VALPLUS  
Markebezeichnung/GarantNuance

Pos. nr. Pos. nr. Produkt Nr. de poste	Oggetto Gegeven Produkt Description du produit	Dimensioni - In Afmetingen Dimensions Dimensions	Tolleranza Tolerantie Alloignance Tolerance	Lunghezza - Lt Lengte Longueur	Colata: Schmelze Heel Coulée	Pezzi Stukken Pièces Pieces	Peso - LB Gewicht Poids Weight Poids	Lotto nr. Loosnr. Lot nr. Lot nr.
0080	Square	1,0000 x 1,0000	484-06B	13 / 13	245298		1.790	706701180

Sono state soddisfatte tutte le condizioni richieste  
Die gegebenen Anforderungen sind in Anlage a-HIF  
The material has been furnished in accordance with the requirements  
Le matériels se trouvent conforme aux exigences

AMS 5640 U S30300 A  
ASTM A314 97 S30300  
ASTM A582 2005 S30300 A

AMS 5640 U TYPE1 A  
ASTM A320 2007A B8F (t)  
MIL-S-862 B/1 303

OCchemical analysis only.

Punzonatura: T-303  
Kennzeichnung/Marque/Marquage

TEST	Provetta/Proben Spannungstest Tension test Test à tension Tension test Test de tension Test de tension	°F Port. Saggio Proben Untersuchung Saggio	Sforzamento Viel Kraft i forte sforzo Rp 0,2% k.s.i.	Sforzamento Viel Kraft i forte sforzo Rp 0,2% k.s.i.	Resistenza Zähligkeit Tensile strength Rm k.s.i.	Allungamento Elastizität Elongation Allongement	Strizione Elastizität Reduction of area Scherung RA %	Resilienza Härte Härte Dureza Impact Value Ressistance	Durezza Härte Härte Dureza HB
Valori richiesti 1 Anforderungen/Request values Values standardées	min max								140 255
A	12,5	68	L	80		102	37	50	

1)L=longitudinal length, Q=transversal/quar, T=tangential/transversal

Grain size for ASTM E112 : 6

### Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata /Heat Schmelze/Coulée	min - max - 0,150	1,00 2,00	1,60 1,70 2,00 15,00	1,70,00 15,00	0,00 1,00	8,00 10,00	- 0,100	0,25 0,35 0,40	- - -		
245298	C % 0,053	Si % 0,47	Mn % 1,79	Cr % 17,24	Mo % 0,38	Cu % 0,71	Ni % 8,13	Co % 0,10	P % 0,029	S % 0,28	Zr % 0,01

Produced without class I-II Ozone depleting substances.

Solution heat treated free from continuous carbide network.

Annealing temperature: 1940°F for 1h/water.

Micro and macro etch test: OK

Material is DFARS Compliant

Melted and manufactured in Italy No welding or weld repair Material free from Mercury or radio-activity contamination  
The Quality Management System is Certified acc. Pressure Equipment Directive [97/23/EC] Annex 1&4.3 by TUEV and LLOYD'S

DAS  
14  
9-89  
12/07/27

Vicenza, 14/01/08 VC0008 (Mod. MOER)	Il collaudatore di stabilimento / der Werkssachverständige / Works inspector / L'agent d'usine M.Rizzotto	Pagina - 1 di 1
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# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511

.50" x 1.250" X 144.000"

PART NO.

PO/Ref 17463

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-777693-003

23Jul12

Pg 1/2

Signed by: \_\_\_\_\_

**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
5205 KAISER DRIVE  
KALAMAZOO, MI 49048

## CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CUSTOMER PO NUMBER:	CUSTOMER PART NUMBER:		PRODUCT DESCRIPTION:						
PEC-236648-4	ALREC00139		0.500 X 1.250 SQ COR RECT BAR						
KAISER ORDER NUMBER:	LINE ITEM:	SHIP DATE:	KAISER LOT NUMBER:	ALLOY:	TEMPER:				
612835	004	02/03/2012	Z00248009	6061	T6511				
WEIGHT SHIPPED:	QUANTITY:	B/L NUMBER:	DIAM/DAF/THKNS:	WIDTH:	LENGTH:				
494.000 LB	56.000 PCS	602545			12.000 FT				
SHIP TO:			SOLD TO:						
THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA						

### Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00248009	0C01	1	45.9	43.1	15.5	RE	91	N/A
Z00248009	0C01	2	47.0	44.1	16.2	RE	92	N/A
Z00248009	0C01	3	46.5	43.6	17.1	RE	94	N/A
Z00248009	0C01	4	47.1	44.5	17.1	RE	91	N/A
Z00248009	0C01	5	46.5	43.8	16.5	RE	88	N/A
Z00248009	0001	6	46.0	43.0	17.9	RE	94	N/A
Z00248009	0001	7	45.6	42.3	15.9	RE	93	N/A
Z00248009	0001	8	46.2	43.3	16.1	RE	91	N/A
Z00248009	0001	9	46.5	43.7	17.9	RE	93	N/A

### Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
101-C84	.73	.37	.29	.08	.94	.10	.08	.03	.00	.00	.00	.01	.03

### Applicable Requirements:

ASCM-B221-08-STENCILED ASME-SB221 1998 SECT II AMS-QQ-A-200/8 UNS#96061 (T6511 also conforms to T6-not applicable to other tempers)

### Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

DAS  
14  
8-89 12/07/27

Plant Serial: 00028007  
Kaiser Order Number: 612835  
Line Item: 004

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511

.50" x 1.250" X 144.000"

PART NO.

PO/Ref 17463

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## Certificate of Mill Test Results

BL PEC-777693-003

23Jul12

Pg 2/2

Signed by:

**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
5205 KAISER DRIVE  
KALAMAZOO, MI 49048

## CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Alex Yeh, Quality & Technology Manager

Plant Serial: 00028007

Kaiser Order Number: 612835

Line Item: 004

Page 2 of 2

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511

100" X 4.00" X 144.0000"

PART NO.



SERVICE CENTER METALS  
5850 Quality Way  
Prince George, VA 23875

PO/Rel 17463

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

## CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

Signed by:

### Certificate of Mill Test Results

BL PEC-777693-006

23Jul12  
Pg 1/1

OUR ORDER NUMBER	ITEM
152409	3

BILL TO	MANIFEST NUMBER	DATE OF SHIPMENT	CERTIFICATION
ThyssenKrupp Materials NA	162248	6/19/2012	ASTM-B221-12 Stencil/Continuous
SHIP TO	CUSTOMER PO		
ThyssenKrupp Materials NA, PEC	PEC-239753		
Quantity Certified	1,482 lbs	ALLOY/TEMPER	SPECIFICATION
	26 pcs	6061-T6511	AMS-QQA-200/8-07
		CUSTOMER PART NUMBER	DESCRIPTION
		RB0128	SCRB 1.000x4.000

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA.

### Mechanical Properties

Test	Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
1	201210303	06/12/12	50.2	46.9

DAS  
14  
9-09  
12/07/27

### Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Al	Each	Others	Total	Melt Source:
0512135	6061	0.73	0.38	0.31	0.09	0.84	0.09	0.07	0.02	97.47	0.05	0.15	United States of America

Print Date: 6/19/2012

Calvin J. Waddins, Director of Quality & Technical Services

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE  
ALUMINUM FLAT BAR 6061-T6511

1.50" X 2.00" X 144.0000"

PART NO.



## SERVICE CENTER METALS

5850 Quality Way  
Prince George, VA 23875

PO/Rel 17463

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by: \_\_\_\_\_

## Certificate of Mill Test Results

BL PEC-771693-008

23Jul12

Pg 1/1

## CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
152110	12

BILL TO	MANIFEST NUMBER	DATE NUMBER	DATE OF SHIPMENT	CERTIFICATION
ThyssenKrupp Materials NA	161536	RB0138	6/8/2012	ASTM-B221-12 Stencil/Continuous
SHIP TO	CUSTOMER PO	ALLOY/TEMPER	SELLER/PERSON	SPECIFICATION
ThyssenKrupp Materials NA PEC	PEC-239616	6061-T6511	David Schroeder	AMS-QQA-200/8-07
Quantity Certified	CUSTOMER PART NUMBER	DESCRIPTION		
1,369 lbs	RB0138	SCRB 1.500x2.000		

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM, Inc. produced and certified as 6061-T6511 also meet the requirements of 6061-T6 extrusions are manufactured in the USA.

### Mechanical Properties

Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
05/25/12	51.5	49.2	14.9
05/25/12	49.9	46.8	15.1
05/25/12	49.2	46.4	15.6
05/25/12	49.1	46.0	16.8
05/25/12	49.3	46.7	15.2
05/25/12	49.3	45.9	15.3

DAS  
14  
S-8  
12/07/27

### Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Each	Others	Total	Melt Source	United States of America
031424	6061	0.77	0.38	0.35	0.11	0.91	0.09	0.06	0.02	97.31	0.05	0.15			
032224	6061	0.72	0.38	0.30	0.09	0.86	0.09	0.06	0.02	97.48	0.05	0.15			
032725	6061	0.74	0.36	0.32	0.10	0.84	0.09	0.08	0.02	97.45	0.05	0.15			

Print Date: 6/8/2012

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511  
1.00" DIA X 144.0000"  
PART NO.

PO/Rel 17463

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-777693-010

23Jul12

Pg 1/2

Signed by: \_\_\_\_\_



## CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAI SER ALUMINUM  
FABRICATED PRODUCTS, LLC  
5205 KAI SER DRIVE  
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER:	CUSTOMER PART NUMBER:		PRODUCT DESCRIPTION:		
PEC-239097-5	015246-2		KAI SERSELECT PRECISION ROD 1.000+/- .004		
KAI SER ORDER NUMBER:	LINE ITEM:	SHIP DATE:	KAI SER LOT NUMBER:	ALLOY:	TEMPER:
620138	005	05/11/2012	Z00216020	6061	T6511B
WEIGHT SHIPPED:	QUANTITY:	B/L NUMBER:	DIAM/DAF/THKNS:	WIDTH:	LENGTH:
2922.000 LB	264.000 PCS	603400			12.000 FT
SHIP TO:			SOLD TO:		
THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		

### Actual Physical Properties

REFERENCE	DASH#	SAMPLE #	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z0021602C	0C01	1	51.2	49.0	16.9	RE 94	N/A	N/A
Z0021602C	0C01	2	50.9	48.6	16.3	RE 93	N/A	N/A
Z0021602C	0C01	3	50.7	48.6	16.9	RE 93	N/A	N/A
Z0021602C	0C01	4	50.1	47.4	15.8	RE 93	N/A	N/A
Z0021602C	0C01	5	51.1	48.9	16.6	RE 94	N/A	N/A
Z0021602C	0C01	6	51.6	49.3	16.4	RE 94	N/A	N/A
Z0021602C	0C01	7	51.2	48.9	17.3	RE 95	N/A	N/A
Z0021602C	0002	1	49.7	47.2	17.4	RE 94	N/A	N/A
Z0021602C	0002	2	49.6	47.0	16.6	RE 95	N/A	N/A
Z0021602C	0002	3	50.1	47.9	15.7	RE 94	N/A	N/A
Z0021602C	0002	4	50.3	47.9	16.9	RE 94	N/A	N/A
Z0021602C	0002	5	49.5	47.9	16.9	RE 93	N/A	N/A

### Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
101538	.72	.32	.28	.09	.95	.09	.05	.03	.00	.00	.00	.01	.03

### Applicable Requirements:

PER ASTM-B221-08, STENCILED ASME-SB221 1998 SECT II PER AMS-QQ-A-200/8 UNS# A96061  
MEETS ALL SPECIFICATION REQUIREMENTS FOR 6061-T6511/T6 ELEVATED MINIMUM MECHANICAL  
PROPERTIES AS FOLLOWS: UTS = 42.0 KSI MIN YIELD - 38.0 KSI MIN ELONGATION = 10.0% MIN

### Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

DAS  
14  
9-89  
12/07/27

Plant Serial: 00043535  
Kaiser Order Number: 620138  
Line Item: 005

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511

1.00" DIA X 144.0000"

PART NO.

PO/Ref 17463

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-777693-010

23Jul12

Pg 2/2

Signed by: \_\_\_\_\_

**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**



## CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
5205 KAISER DRIVE  
KALAMAZOO, MI 49048

### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Alex Yeh, Quality & Technology Manager



Plant Serial: 00043535

Kaiser Order Number: 620138

Line Item: 005

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM SHEET 6061 T6  
.1250 Nom X 48.0000" X 96.0000"  
PART NO.

PO/Rel 17463

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-777693-013

23Jul12

Pg 1/2

Signed by: \_\_\_\_\_



(A)

### Abnahmeprüfzeugnis 3.1 (EN 10204) Inspection certificate – mill certificate

Zertifiziert nach / certified to ISO 9001, ISO/TS 16949, EN/AS 9100, ISO 14001, NADCAP

Nr.: 85283529 06 / 9

Rev. 0

Seite / page: 1 von / of 2

Datum / date: 2012 04 11

<b>Auftraggeber / customer:</b> ThyssenKrupp Materials NA 2821 Langstaff Rd CDN-L4K 5C6 CONCORD,ON	Bestell Nr. / order no.: PEC-237401 Datum / date: 2012 03 05
<b>Warenempfänger / consignee:</b> ThyssenKrupp Materials NA 2821 Langstaff Rd CDN-L4K 5C6 CONCORD,ON	Auftragsbest. Nr. / order confirm. no.: 638423 Datum / date: 2012 03 06
<b>Endkunde, Bestell-Nr. / Your cust., ord. no.:</b>	Lieferschein Nr. / delivery note: 85283529 Datum / date: 2012 04 30

Produkt/product	Bedingungen/terms
Form / form: Sheet Werkstoff / material: 6061 Zustand / temper: T6 Dim. / dim: [inch]: 0,125x48,00x96,00 Kundenartikel-Nr / customer article no.:	Techn. Lieferbedingungen / techn. spec.: AMS-QQ-A-250/11, 08.1997 ASTM B 209 - 07 Material meets also the mech. properties of AMS 4027N, 07.2008, but not marked ANSI H35.2-2009 ASME SB 209, 2007  Sondevorschrift / special terms:

AB-Pos. ord.-Item.	BNr/Los/Teillos. Lot/No./Part	Guss Nr. cast no.	Werkstoff material	Kollo packno.	Gewicht netto weight net	Stk. pcs.
04	30286/01/00	01/0049556/2	6061.1	6384230007	4003,527 lbs	73
04	30286/01/00	01/0049556/2	6061.1	6384230008	4001,323 lbs	73

### Chemische Zusammensetzung / chemical composition: [%] Gewichtsanteile / weight proportion (OES)

Guss Nr. / cast no.	AMAG designation	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	
01/0049556/2	6061.1	0,68	0,43	0,26	0,12	0,93	0,18	0,01	0,05	0,06	
	actual										

### Zugversuch / Tensile test

BNr/Los. Lot/No.	Zustand temper	Richtung direction			Rm [ksi]	Rp0.2 [ksi]	A2" [%]			
30286/01	T6	LT			47,4	41,0	15			
30286/01	T6	LT			47,1	40,6	14			
30286/01	T6	LT			47,1	40,6	14			
30286/01	T6	LT			47,1	40,8	14			
30286/01	T6	LT			47,0	40,3	16			
30286/01	T6	LT			47,0	40,3	15			
30286/01	T6	LT			47,1	40,5	15			
30286/01	T6	LT			47,4	40,6	15			
30286/01	T6	LT			47,9	41,0	15			

AMAG rolling GmbH, Postlach 32, A-5282 Ranshofen, Österreich – [www.amag.at](http://www.amag.at)  
AMAG rolling GmbH, P.O. Box 32, A-5282 Ranshofen, Austria – [www.amag.at](http://www.amag.at)

DAS  
14  
9-89

12/07/22

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM SHEET 6061 T6  
.1250 Nom X 48.0000" X 96.0000"  
PART NO.

PO/Ref 17463

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-777693-013

23Jul12

Pg 2/2

Signed by: \_\_\_\_\_



### Abnahmeprüfzeugnis 3.1 (EN 10204) Inspection certificate – mill certificate

Zertifiziert nach / certified to ISO 9001, ISO/TS 16949, EN/AS 9100 ISO 14001, NADCAP

Nr.: 85283529 06 / 9

Rev. 0

Seite / page: 2 von / of 2

Datum / date: 2012 04 11

Es wird bestätigt, dass die Lieferung geprüft wurde und den Vereinbarungen bei der Bestellung entspricht.  
We hereby certify that the material described above has been tested and complies with the terms of the order  
contract.

Werkssachverständiger / factory specialist	E-Mail / e-mail
Josef Klampfer	j.klampfer@amag.at

Herstellerland: Österreich / goods origin: The goods are of Austrian origin.  
Maschinell erstellt - Gültig ohne Unterschrift / Automated - valid without being signed.

AMAG rolling GmbH, Postfach 32, A-5282 Ranshofen, Österreich – [www.amag.at](http://www.amag.at)  
AMAG rolling GmbH, P.O. Box 32, A-5282 Ranshofen, Austria – [www.amag.at](http://www.amag.at)

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

STAINLESS STEEL SHEET, 304, 2B,  
1,200 Nom X 48,0000", X 120,0000"

PART NO.

PO/Ref 17463

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

Signed by:

DAE  
14  
9-89

12/07/27

# Certificate of Mill Test Results

BL PEC-777693-002

23Jul12  
Pg 1/1



**Jiangsu Dinsen Metal Products Co., Ltd.**  
MANUFACTURING PARTNERS OF CHINA  
ADDRESS: WUJI TUNGDONGKOU INDUSTRIAL  
EASTSH PROVINCE, CHINA

## 产品质 量 证 明 书

MILL TEST CERTIFICATE

Specimen No. M120302001

Expiry Date: 2012-4-15

WE HEREBY CERTIFY THAT THE MATERIAL STATED WAS MANUFACTURED  
ACCORDING TO THE ORDER AND SPECIFICATION

Q. # & D. : 82498  
Date No. :  
U. P. R. : GLOBAL STAINLESS STEEL INC.  
Other :  
R. R. I. :  
Comments :

品名: COLD ROLLED STAINLESS  
Commodity: STEEL SHEET, SLIT EDGE

序号 No.	Product No. Product No.	厚度 Type	表面 Surface Finished Thickness mm	宽度 Width mm	长度 Length mm	重量 Weight kg/m <sup>2</sup>	NET Specification ASTM A240	拉伸 Tensile Test ASTM A240	弯曲 Bend Test ASTM A240	冲击 Impact Test ASTM A240	硬度 Hardness HV0.05	热处理 Heat Treatment ASTM A240	炉号 Heat No.	炉号 Heat No.	Chemical Composition (%)							
															C	Si	Mn	P	S	Ni	Cr	N
1	P0011832300	304	2B	0.5	1210	2420	910.04		275	231	65	167	QW/A0130C	SP28H11	0.0510	0.5040	1.920	0.0321	0.0157	0.02	18.26	1
2	P0011832301	304	2B	0.5	1210	2420	908.06	ASTM A240	275	231	65	167	QW/A0130C	SP28H11	0.0510	0.5050	1.920	0.0321	0.0157	0.02	18.26	1
3	P001175073	304	2B	0.5	1210	2420	905.02	ASTM A240	270	231	60	167	QW/A0130B	SP28H09	0.0468	0.5120	1.910	0.0206	0.0094	0.02	18.32	1
4	P0011832319	304	2B	0.5	1210	2420	913.71	ASTM A240	273	682	62	163	QW/A0130B	SP28H03	0.0370	0.4460	1.020	0.0186	0.0072	0.05	18.17	1
5	P0011832320	304	2B	0.5	1210	2420	903.40	ASTM A240	273	652	62	163	QW/A0130B	SP28H03	0.0319	0.4480	1.020	0.0185	0.0072	0.05	18.17	1
6	P0011832321	304	2B	0.5	1210	2420	916.71	ASTM A240	273	632	62	163	QW/A0130B	SP28H03	0.0370	0.4480	1.020	0.0186	0.0072	0.05	18.17	1
7	P0011210553	304	2B	0.5	1210	2420	930.02	ASTM A240	273	706	53	173	QW/A0130A	SP28H45	0.0328	0.4720	1.360	0.0160	0.0051	0.06	18.17	1
8	P00118324263	304	2B	0.5	1210	2420	947.00	ASTM A240	271	663	61	175	QW/A0130A	SP28H83	0.0314	0.4610	1.420	0.0143	0.0034	0.05	18.34	1
9	P00118324275	304	2B	0.5	1210	2420	1007.61	ASTM A240	271	653	61	175	QW/A0130A	SP28H86	0.0314	0.4510	1.120	0.0163	0.0034	0.05	18.34	1
10	P0011770308	304	2B	0.5	1210	2420	1043.39	ASTM A240	267	714	55	174	QW/A0130A	SP28H03	0.0370	0.4480	1.070	0.0186	0.0072	0.05	18.37	1
11	P0011705121	304	2B	0.5	1210	2420	1038.94	ASTM A240	267	714	55	174	QW/A0130A	SP28H03	0.0370	0.4480	1.070	0.0186	0.0072	0.05	18.37	1
12	P0011830702	304	NO.4+	1.5	1210	2420	1070.46	ASTM A240	267	554	51	162	QW/A0130A	SP28H27	0.0476	0.5770	1.050	0.0306	0.0059	0.04	18.22	1
13	P0011683968	304	NO.4+	1.5	1210	2420	1075.55	ASTM A240	267	624	50	164	QW/A0130B	SP28H27	0.0476	0.5720	1.050	0.0306	0.0059	0.04	18.22	1
14	P00115915758	304	NO.4+	2.0	1210	2420	1082.00	ASTM A240	315	647	53	163	QW/A0130A	SP28H65	0.0400	0.4500	1.080	0.0330	0.0040	0.1	18.21	0.06
15	P0011703036	304	NO.4+	2.5	1210	2420	1070.50	ASTM A240	307	714	55	174	QW/A0130A	SP3003	0.0370	0.4480	1.070	0.0186	0.0072	0.05	18.17	1
16	P0011703037	304	NO.4+	2.5	1210	2420	1070.30	ASTM A240	267	714	55	174	QW/A0130A	SP3003	0.0370	0.4480	1.070	0.0186	0.0072	0.05	18.17	1

本报告所列产品符合单面精轧的有关要求。

3.4 表面状态: ④

尺寸公差: 按合同

理化试验: 按合同

TECHNICAL DEPT

江苏大明金属制品有限公司

WE HEREBY CERTIFY THAT THE MATERIAL STATED WAS MANUFACTURED  
ACCORDING TO THE ORDER AND SPECIFICATION

WE HEREBY CERTIFY THAT THE MATERIAL STATED WAS MANUFACTURED  
ACCORDING TO THE ORDER AND SPECIFICATION

WE HEREBY CERTIFY THAT THE MATERIAL STATED WAS MANUFACTURED  
ACCORDING TO THE ORDER AND SPECIFICATION

王海峰 JIANGSU DAINENG METAL PRODUCTS CO., LTD.

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE  
ALUMINUM FLAT BAR 6061-T6

PO/Ref 17463

Signed by: \_\_\_\_\_

50"  
X 6.00"  
X 14.0000'  
PART NO.

We certify that this is a true copy of the report  
furnished by the producer of the metal or data  
resulting from tests made in approved labs.

## CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

**SERVICE CENTER METALS**  
5850 Quality Way  
Prince George, VA 23875



OUR ORDER NUMBER	ITEM
152110	6

BILL TO	MANIFEST NUMBER	DATE NUMBER	DATE OF SHIPMENT	CERTIFICATION
ThyssenKrupp Materials NA	161978	PL0102	6/14/2012	ASTM-B221-12 Stencil/Continuous
SHIP TO	CUSTOMER PG	ALLOY/TEMPER	SALESPERSON	SPECIFICATION
ThyssenKrupp Materials NA PEC	PEC-239616	6061-T6511	David Schroeder	AMS-QQA-200/8-07

Quantity Certified 1,143 lbs 27 pcs CUSTOMER PART NUMBER PL-500x6.000

**We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA.**

### Mechanical Properties

Test	Lot No.	Test Date	Ultimate Tensile Strength (ksi)	Yield Strength (ksi)	Percent Elongation
1	201210006	06/09/12	49.1	47.0	14.5
2	201210006	06/09/12	50.8	48.5	15.0

12/07/27  
14-88  
SCM

### Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Each	Others	Melt Source:
060421	6061	0.74	0.37	0.33	0.10	0.90	0.09	0.08	0.02	97.37	0.05	0.15	United States of America

Print Date: 6/14/2012

Calvin J. Williams, Director of Quality & Technical Services

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM SQUARE BAR 6061-T6511  
1.250" X 144.0000"  
PART NO.

PO/Rel 17463

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-777693-007

23Jul12

Pg 1/2

Signed by: \_\_\_\_\_

**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**

### CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
5205 KAISER DRIVE  
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER:		CUSTOMER PART NUMBER:		PRODUCT DESCRIPTION:					
PEC-240344-2		ALSQ00100		1.250 SC SQ BAR					
KAISER ORDER NUMBER:		LINE ITEM:		SHIP DATE:		KAISER LOT NUMBER:	ALLOY:		
623482		002		07/06/2012		Z00240017	6061		
WEIGHT SHIPPED:		QUANTITY:		B/L NUMBER:		DIAM/DAF/THKNS:	WIDTH:		
1058.000 LB		48.000 PCS		603828			LENGTH:		
SHIP TO:				SOLD TO:					
THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA				THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA					

### Actual Physical Properties

REFERENCE	DASH#	SAMPLE #	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00240017	0001	1	52.8	50.5	16.6	RE 93	N/A	N/A
Z00240017	0001	2	51.6	49.0	17.8	RE 93	N/A	N/A
Z00240017	0001	3	51.9	49.4	17.5	RE 94	N/A	N/A
Z00240017	0001	4	52.9	50.7	16.2	RE 93	N/A	N/A
Z00240017	0001	5	52.5	50.1	17.9	RE 94	N/A	N/A
Z00240017	0001	6	51.4	49.0	17.7	RE 94	N/A	N/A

### Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	C.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	C.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
101758	.67	.26	.24	.09	.92	.09	.02	.03	.00	.00	.00	.01	.03

### Applicable Requirements:

ASTM-B221-12 STENCILED ASME-SB221 1998 SECT II AMS-QQ-A-200/8 (2007) UNS#A96061  
(T6511 also conforms to T6-not applicable to other tempers)

### Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

JAS  
14-89 / 12/07/12

Plant Serial: C0050003  
Kaiser Order Number: 623482  
Line Item: 002

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM SQUARE BAR 6061-T6511

1.250" X 144.000"

PART NO.

PO/Rel 17463

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-777693-007

23Jul12

Pg 2/2

Signed by: \_\_\_\_\_

**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**



## CERTIFIED TEST REPORT

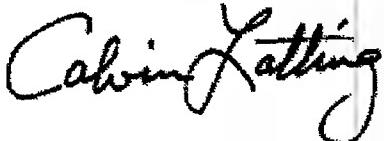
<http://Online.KaiserAluminum.com>

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
5205 KAISER DRIVE  
KALAMAZOO, MI 49048

### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Calvin Latting, Quality & Technology Manager



Plant Serial: 00050003  
Kaiser Order Number: 623482  
Line Item: 0C2

Page 2 of 2



THYSSENKRUPP MATERIALS NA

PO/ReI 17463

## Certificate of Mill Test Results

BL PEC-777693-011

23Jul12

**DAKI ALUMINUM**  
ALUMINUM ROUND BAR 6061-T6511  
3.50" DIA X 144.0000"  
PART NO.

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by: \_\_\_\_\_

四百

Sapa Industrial Extrusions  
53 POTTSVILLE STREET

Certified Inspection Report

Certified Inspection Report			
Sale Order Number	Line No.	Customer PO#	Cert. Number
1100483655	1	PHC-240110-001	SAFA591092

Cert Creation Date	Page
25-JUN-12	2 of 2

Cert Print Date
25-JUN-12

12/07/27

Composition Results		
Heat / Cast	Si	Al
4028239	0.69	

Alloy	Si			Pb			Cu			Mn			Ni		
	Min	Max	Mdn	Min	Max	Mdn	Min	Max	Mdn	Min	Max	Mdn	Min	Max	Mdn
6061	0.40	0.80	—	0.70	0.15	0.40	—	—	0.15	0.80	—	1.20	—	—	—
6063	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6061	0.15	—	0.05	—	0.05	—	—	—	0.05	—	—	0.15	—	—	0.15

CERTIFICATES

Products manufactured with a T6S1 temper also meet T6 temper requirements.

**Yield strength has been determined by the 0.2% offset method.**

**AM MUL Finishes Alloys produced at Sapa Extrusions comply with 0.1% Maximum  
In accordance with EN 10204 Inspection Certificates Type 3.1.**

Made in USA

Heat/Cast	SI	Fe	C	Mn	Cr	N
4028239	0.69	0.30	0.31	0.10	0.07	—

	Pb	Other Ind.	Other Ind.
—	—	—	—

Doc No. 137558 Indexed 28Jun12 by s1ssup1

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511  
.750" X 1.50" X 144.0000"  
PART NO.

PO/Rel 17463

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-777693-005

23Jul12

Pg 1/2

Signed by: \_\_\_\_\_

**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**

## CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
5205 KAISER DRIVE  
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER:		CUSTOMER PART NUMBER:		PRODUCT DESCRIPTION:					
PEC-239300-1		ALREC00806		.750 X 1.500 SC RECT BAR					
KAISER ORDER NUMBER:		LINE ITEM:		SHIP DATE:		KAISER LOT NUMBER:	ALLOY:		
621011		001		05/25/2012		HK079 712	6061		
WEIGHT SHIPPED:		QUANTITY:		B/L NUMBER:		DIAM/DAF/THKNS:	WIDTH:		
508.000 LB		32.000 PCS		603528			12.000 FT		
SHIP TO:				SOLD TO:					
THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA				THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA					

### Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (ksi)	YTS (ksi)	ELONG%	HARDNESS	CONDUCT.	BEND
HK079 712	0001	0001	43.0	41.6	19.4	RE 97	N/A	N/A
HK079 712	0001	0002	48.1	38.1	20.5	RE 97	N/A	N/A
HK079 712	0001	0003	48.0	41.6	20.8	RE 97	N/A	N/A
HK079 712	0001	0004	46.7	39.3	20.3	RE 97	N/A	N/A
HK079 712	C001	0005	47.4	43.3	18.0	RE 97	N/A	N/A
HK079 712	C001	0006	47.8	40.0	18.0	RE 97	N/A	N/A
HK079 712	C001	0007	48.0	42.9	18.6	RE 97	N/A	N/A
HK079 712	C001	0008	48.0	41.9	18.3	RE 97	N/A	N/A
HK079 712	C001	0009	46.9	41.3	19.4	RE 97	N/A	N/A
HK079 712	C001	0010	47.9	40.1	19.8	RE 97	N/A	N/A
HK079 712	C001	0011	46.9	38.6	15.9	RE 97	N/A	N/A
HK079 712	C001	0012	48.1	44.4	19.7	RE 96	N/A	N/A
HK079 712	C001	0013	48.0	42.2	21.7	RE 96	N/A	N/A
HK079 712	C001	0014	47.0	42.1	18.7	RE 96	N/A	N/A
HK079 712	C001	0015	47.5	39.4	17.6	RE 96	N/A	N/A
HK079 712	C001	0016	48.4	40.4	15.1	RE 96	N/A	N/A
HK079 712	C001	0017	48.0	41.9	19.5	RE 95	N/A	N/A
HK079 712	C001	0018	48.1	43.1	17.6	RE 95	N/A	N/A

### Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.8C	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.4C	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
A32603	.68	.32	.24	.05	.98	.11	.06	.01	.00	.00	.00	.00	.01
A32602	.69	.32	.23	.05	.95	.10	.04	.02	.00	.00	.00	.00	.00
A32601	.70	.30	.24	.06	.97	.11	.05	.02	.00	.00	.00	.00	.00

### Applicable Requirements:

VAS  
14  
9-09 12/07/22

Plant Serial: 00045426  
Kaiser Order Number: 621011  
Line Item: 001

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511

.750" X 1.50" X 144.0000"

PART NO.

PO/Rel 17463

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-777693-005

23Jul12

Pg 2/2

Signed by: \_\_\_\_\_

**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**



## CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
5205 KAISER DRIVE  
KALAMAZOO, MI 49048

ASTM-B221-08-STENCILED ASME-SB221 1998 SECT II AMS-QQ-A-200/8 UNS#96061 (T6511 also  
conforms to T6-not applicable to other tempers)

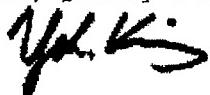
### Miscellaneous Notes

MANUFACTURED IN USA (COMMERCE, CA) MELTED IN USA

#### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Alex Yeh, Quality & Technology Manager



JAS  
14  
2-89 12/07/27

Plant Serial: 00045426

Kaiser Order Number: 621011

Line Item: 001

Page 2 of 2

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE  
ALUMINUM FLAT BAR 6061-T6511

2.00" X 2.50" X 144.0000" PART NO. OFFERING\*\*\*\*\*

PO/Ref 17463

We certify that this is a true copy of the report  
furnished by the producer of the metal or data  
resulting from tests made in approved labs.

Signed by: \_\_\_\_\_  
BL PEC-777693-009  
Pg 1/1  
23Jul12

## EXTRUDEX

Al. UMFNNUM

### MILL TEST REPORT

TEL: (416)745-4444 FAX:(416)745-0925 1-800-668-7210  
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4  
<http://www.extrudex.com>

BILL TO:  
THYSSENKRUPP MATERIALS NA  
SHIP TO:  
THYSSENKRUPP MATERIALS NA  
SO DESCRIPTION  
2"X2.5" FB  
CUSTOMER PO# PEC-239512  
CUSTOMER PART NUMBER

Cert Code: 1  
DATE NUMBER 23922  
DATE OF SHIPMENT 7/16/2012  
EXTRUDEX ORDER NO. 146935 — 4  
MANIFEST NO. 270266  
ALLOY 6061  
TEMPER T6511  
SALESMAN FORBES DODWELL  
PART DESCRIPTION  
CERTIFICATION  
MILL TEST ASTM B221

### Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness	Conductivity
A.11	6061	Jul/13/12	45.2	42.4	13.30	89.3, 89.0, 89.8	

### Chemical Composition

Cast Number	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ge	V	B	Zr	Bi	Pb	Sn	Sr	Ca	Al	Other
A.11 C7331164 6061	0.61	0.18	0.19	0.01	0.86	0.06	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

  
David Matale  
Quality Control Manager

12/07/27  
AS  
1489

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM SHEET 6061 T6  
.0810 Nom X 48.0000" X 144.0000"  
PART NO.

PO/Rel 17463

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-777693-012

23Jul12

Pg 1/2

Signed by:



### Abnahmeprüfzeugnis 3.1 (EN 10204) Inspection certificate – mill certificate

Zertifiziert nach / certified to ISO 9001, ISO/TS 16949, EN/AS 9100, ISO 14001, NADCAP

Nr.: 85289222 02 / 7

Rev. 0

Seite / page: 1 von / of 2

Datum / date: 2012 02 15

<b>Auftraggeber / customer:</b> ThyssenKrupp Materials NA 2821 Langstaff Rd CDN-L4K 5C6 CONCORD,ON	Bestell Nr. / order no.: PEC-236262 Datum / date: 2012 01 19
<b>Warenemtänger / consignee:</b> ThyssenKrupp Materials NA 2821 Langstaff Rd CDN-L4K 5C6 CONCORD,ON	Auftragsbest. Nr. / order confirm. no.: 636296 Datum / date: 2012 01 20
<b>Endkunde, Bestell-Nr. / Your cust., ord. no.:</b>	Lieferschein Nr. / delivery note: 85289222 Datum / date: 2012 02 29
	Akkreditiv Nr. / letter of credit no.:

Produkt/product	Bedingungen/terms:
Form / form: Sheet Werkstoff / material: 6061 Zustand / temper: T6 Dim. / dim: [inch]: 0,080x48,00x144,00 Kundenartikel-Nr / customer article no.:	Techn. Lieferbedingungen / techn. spec.: AMS-QQ-A-250/11, 08.1997 ASTM B 209 - 07 Material meets also the mech. properties of AMS 4027N, 07.2008, but not marked ANSI H35.2-2009 ASME SB 209, 2007  Sondervorschrift / special terms:

AB-Pos. ord.-Item.	BNr/Los/Telllos Lot/No./Part	Guss Nr. cast no.	Werkstoff material	Kollo. packno.	Gewicht netto: weight net.	Stk. pcs.
02	25872/01/00	01/0047294/1	6061.1	6362960002	4029,982 lbs	77

### Chemische Zusammensetzung / chemical composition: [%] Gewichtsanteile / weight proportion (OES)

Guss Nr. / cast no.	AMAG designation	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Tl
01/0047294/1	6061.1	0,65	0,48	0,23	0,11	0,91	0,18	0,01	0,04	0,06

### Zugversuch / Tensile test

BNr/Los Lot/No.	Zustand temper	Richtung direction			Rm [ksi]	Rp0.2 [ksi]	A2" [%]			
25872/01	T6	LT			47,0	39,2	16			
25872/01	T6	LT			47,1	39,2	15			
25872/01	T6	LT			47,3	39,3	15			
25872/01	T6	LT			47,0	39,2	16			
25872/01	T6	LT			46,8	39,0	16			
25872/01	T6	LT			46,7	38,9	15			
25872/01	T6	LT			46,7	38,9	15			
25872/01	T6	LT			46,8	39,0	16			
25872/01	T6	LT			46,6	38,7	15			

DAS  
14-02-2012

AMAG rolling GmbH, Postlach 32, A-5282 Ranshofen, Österreich – [www.amag.at](http://www.amag.at)  
AMAG rolling GmbH, P.O. Box 32, A-5282 Ranshofen, Austria – [www.amag.at](http://www.amag.at)

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM SHEET 6061 T6  
.0810 Nom X 48.0000" X 144.0000"  
PART NO.

PO/Rel 17463

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-777693-012

23Jul12

Pg 2/2

Signed by: \_\_\_\_\_



### Abnahmeprüfzeugnis 3.1 (EN 10204) Inspection certificate – mill certificate

Zertifiziert nach / certified to ISO 9001, ISO/TS 16949, EN/AS 9100, ISO 14001, NADCAP

Nr.: 85289222 02 / 7

Rev. 0

Seite / page: 2 von / of 2

Datum / date: 2012 02 15

Es wird bestätigt, dass die Lieferung geprüft wurde und den Vereinbarungen bei der Bestellung entspricht.  
We hereby certify that the material described above has been tested and complies with the terms of the order  
contract.

Werkssachverständiger / factory specialist	E-Mail / e-mail
Josef Klampfer	j.klampfer@amag.at

Herstellerland: Österreich / goods origin: The goods are of Austrian origin.  
Maschinell erstellt - Gültig ohne Unterschrift / Automated - valid without being signed.

AMAG rolling GmbH, Postfach 32, A-5282 Ranshofen, Österreich – [www.amag.at](http://www.amag.at)  
AMAG rolling GmbH, P.O. Box 32, A-5282 Ranshofen, Austria – [www.amag.at](http://www.amag.at)



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO17463**

Purchase Order Date 7/17/12  
PO Print Date 7/17/12

Page Number 1 of 6

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"  
TORONTO, ON M5W 5V8  
CA

Contact Name	Buyer	Chantal Lavoie
Vendor Phone	Requisition Nbr	10127-2607
Vendor Fax	Tax Resale Nbr	Net 30
Vendor Account Nbr	Terms	CAD
	Currency	Destination-Collect
	FOB	

Ship To : DART AEROSPACE LTD 1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

*REvised*

Line Nbr	Reference Revision ID	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
3	M303B1.000X1.000 <i>050</i>	303 BAR 1" X 1"	7/25/12 Yes	✓ 12.00 f	Yours ppd	\$13.7500	\$165.00
						<i>12.1</i>	<i>1621.126</i>
4	M304B0.500X2.500 <i>050</i>	304 BAR .500 x 2.5	7/25/12 Yes	24.00 f	Yours ppd	\$12.9083	\$309.80
						<i>12.1</i>	<i>309.80</i>
5	M304B0.625X3.000 <i>050</i>	304 BAR .625 X 3.00	7/25/12 Yes	12.00 f	Yours ppd	\$20.2500	\$243.00

**MATERIAL CERTIFICATION  
REQ'D UPON DELIVERY**

No substitution or deviation without consent.  
Certificate of Conformity or Material Certification required - YES *NO*



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO17463**

Purchase Order Date 7/17/12  
PO Print Date 7/17/12

Page Number 2 of 6

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"  
TORONTO, ON M5W 5V8  
CA

Contact Name

Vendor Phone 905 669 9444

Vendor Fax 905 738 9033

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

10127-2607

Tax Resale Nbr

Net 30

Terms

CAD

Currency

FOB

Destination-Collect

**Special Inst:** AISI 304/316 SS BAR OR AISI 304/316 SS  
PLATE  
AS PER ASTM A276 OR ASTM A240

(NOTE: AISI 303 NOT ACCEPTABLE)

6	M304S11GA 020	304/316 0.125 Sheet	7/23/12 Yes	✓ 280.00 sf	Yours ppd <i>142/7/24</i>	\$9.0193	\$2,525.40	1
7	M6061T6B0.500X01.250 010	6061-T6 Bar .500 x 1.25	7/23/12 Yes	✓ 24.00 f	Yours ppd <i>142/7/24</i>	\$1.5750	\$37.80	
8	M6061T6B0.500X06.000 004	6061-T6 Bar .500 x 6.00	7/23/12 Yes	✓ 24.00 f	Yours ppd <i>142/7/24</i>	\$7.1667	\$172.00	

No substitution or deviation without consent.

Certificate of Conformity or Material Certification required  YES  NO



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO17463

Purchase Order Date 7/17/12

PO Print Date 7/17/12

Page Number 3 of 6

Order From : VC-COP001

THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"  
TORONTO, ON M5W 5V8  
CA

Contact Name

Vendor Phone 905 669 9444

Vendor Fax 905 738 9033

Vendor Account Nbr

Buyer Chantal Lavoie

Requisition Nbr

10127-2607

Tax Resale Nbr

Net 30

Terms

CAD

Currency

Destination-Collect

FOB

Special Inst: MATERIAL: 6061-  
T6/T651/T6510/T6511/T62 ALUMINUM  
BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8  
OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR  
AMS 4160 OR ASTM B211 OR  
ASTM B221

9 M6061T6B0.750X01.500 6061-T6 Bar .750 X 1.50 7/23/12 ✓ 24.00 Yours ppd \$2.6667 \$64.00

003

f 112/17/26

10 M6061T6B1.000X04.000 6061-T6 Bar 1.00 x 4.00 7/23/12 ✓ 24.00 Yours ppd \$9.4167 \$226.00

004

f 112/17/26

11 M6061T6B1.250X01.250 6061-T6 Bar 1.25 x 1.25 7/23/12 ✓ 12.00 Yours ppd \$3.6667 \$44.00

003

f 112/17/26

No substitution or deviation without consent.

Certificate of Conformity or Material Certification required  YES NO

Change Nbr: 2

Change Date: 7/17/12



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO17463

Purchase Order Date 7/17/12

PO Print Date 7/17/12

Page Number 4 of 6

Order From : VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"  
TORONTO, ON M5W 5V8  
CA

Contact Name	Buyer	Chantal Lavoie
Vendor Phone	Requisition Nbr	
Vendor Fax	Tax Resale Nbr	10127-2607
Vendor Account Nbr	Terms	Net 30
	Currency	CAD
	FOB	Destination-Collect

Special Inst: MATERIAL: 6061-  
T6/T651/T6510/T6511/T62 ALUMINUM  
BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8  
OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR  
AMS 4160 OR ASTM B211 OR  
ASTM B221

12	M6061T6B1.500X02.000	6061-T6 Bar 1.50 x 2.00	7/23/12	12.00	Yours ppd	\$7.0000	\$84.00
----	----------------------	-------------------------	---------	-------	-----------	----------	---------

010

7/17/12

Special Inst: MATERIAL: 6061-  
T6/T651/T6510/T6511/T62 ALUMINUM  
BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8  
OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR  
AMS 4160 OR ASTM B211 QR  
ASTM B221

13	M6061T6B2.000X02.250	6061-T6 Bar 2.00 x 2.25	7/23/12	12.00	Yours ppd	\$11.8333	\$142.00
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009

7/17/12

Special Inst: MATERIAL: 6061-  
T6/T651/T6510/T6511/T62 ALUMINUM  
BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8  
OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR  
AMS 4160 OR ASTM B211 OR  
ASTM B221

14	M6061T6R1.000	ROUND BAR 1.00"	7/23/12	24.00	Yours ppd	\$1.8333	\$44.00
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013

7/17/12

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required YES NO

Change Nbr: 2

Change Date: 7/17/12



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO17463**

Purchase Order Date 7/17/12

PO Print Date 7/17/12

Page Number 5 of 6

Order From : VC-COP001

THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"  
TORONTO, ON M5W 5V8  
CA

Contact Name

Vendor Phone 905 669 9444

Vendor Fax 905 738 9033

Vendor Account Nbr

Buyer Chantal Lavoie

Requisition Nbr

Tax Resale Nbr 10127-2607

Terms Net 30

Currency CAD

FOB Destination-Collect

**Special Inst:** MATERIAL: 6061-  
T6/T651/T6510/T6511/T62 ALUMINUM  
ROUND BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8  
OR AMS 4117/4128/  
4115/4116 OR QQ-A-200/8 OR AMS-QQ-  
A-200/8 OR AMS 4160  
OR ASTM B211 OR ASTM B221

15 M6061T6R3.500 6061 RD bar 3.50 7/23/12 12.00 Yours ppd \$23.5000 \$282.00

006

Yes

f

1/27/26

**Special Inst:** MATERIAL: 6061-  
T6/T651/T6510/T6511/T62 ALUMINUM  
ROUND BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8  
OR AMS 4117/4128/  
4115/4116 OR QQ-A-200/8 OR AMS-QQ-  
A-200/8 OR AMS 4160  
OR ASTM B211 OR ASTM B221

16 M6061T6S.032 6061-T6 Sheet 0.032" 7/23/12 96.00 Yours ppd \$1.9792 \$190.00

021

Yes

sf

**Special Inst:** MATERIAL: 6061-T6/T62 ALUMINUM  
SHEET  
AS PER QQ-A-250/11 OR AMS-QQ-A-  
250/11 OR  
AMS 4025 OR AMS 4027 OR ASTM B209

17 M6061T6S.080 6061-T6 .080 Sheet 7/23/12 96.00 Yours ppd \$3.1042 \$298.00

621

Yes

sf

1/27/26

No substitution or deviation without  
consent.

Certificate of Conformity or Material  
Certification required- YES NO

Change Nbr: 2

Change Date: 7/17/12



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO17463**

Purchase Order Date 7/17/12

PO Print Date 7/17/12

Page Number 6 of 6

Order From : VC-COP001

THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"  
TORONTO, ON M5W 5V8  
CA

Contact Name

Vendor Phone 905 669 9444

Vendor Fax 905 738 9033

Vendor Account Nbr

Buyer Chantal Lavoie

Requisition Nbr

Tax Resale Nbr 10127-2607

Terms Net 30

Currency CAD

FOB Destination-Collect

Special Inst: MATERIAL: 6061-T6/T62 ALUMINUM SHEET  
AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR  
AMS 4025 OR AMS 4027 OR ASTM B209

18 M6061T6S.125 6061-T6 .125 Sheet 7/23/12 ✓ 64.00 Yours ppd \$4.8438 \$310.00  
Yes sf *7/23/12*

Special Inst: MATERIAL: 6061-T6/T62 ALUMINUM SHEET  
AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR  
AMS 4025 OR AMS 4027 OR ASTM B209

19 M7075T73B2.500X03.25 7075-T73 Bar 2.50 x 3.25 7/23/12 6.00 Yours ppd \$49.6667 \$298.00  
Yes f *7/23/12*

Special Inst: 7075-T73 (OR 7075-T7351/T73510/T73511) BAR PER ASM-QQ-A-200/11 OR AMS-QQ-A-225/9 (AMS 4124) OR AMS-QQ-A-250/12 (AMS 4078)

PO Total: \$5,435.00

CL No substitution or deviation without consent.  
Certificate of Conformity or Material Certification required  YES  NO

Change Nbr: 2

Change Date: 7/17/12